TRANSLATION PATENT COOPERATION TREATY PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 155394.2/Le	FOR FURTHER ACTION	See Form PCT/IPEA/416						
International application No.	International filing date (day/month/yea	r) Priority date (day/month/year)						
PCT/EP2004/053384	09.12.2004	09.12.2003						
International Patent Classification (IPC) or na	tional classification and IPC							
G06F17/30								
Applicant SWISS REINSURANCE COMPANY								
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.								
2. This REPORT consists of a total of	This REPORT consists of a total of sheets, including this cover sheet.							
3. This report is also accompanied by	ANNEXES, comprising:							
a. (sent to the applicant an	d to the International Bureau) a total of	sheets, as follows:						
1	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental								
Box.								
b (sent to the Internationa	l Bureau only) a total of (indicate type and	number of electronic carrier(s))						
	, containing a sequence listing and/or tables							
1	related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This report contains indications rela	ting to the following items:							
Box No. I Basis of th	ne report							
Box No. II Priority								
Box No. III Non-estab	lishment of opinion with regard to novelty,	inventive step and industrial applicability						
Box No. IV Lack of un	ity of invention							
BON 110. 1	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VI Certain do	Box No. VI Certain documents cited							
Box No. VII Certain de	Box No. VII Certain defects in the international application							
Box No. VIII Certain ob	Box No. VIII Certain observations on the international application							
Date of submission of the demand	Date of completion	on of this report						
Name and mailing address of the IPEA/EP	Authorized office	Authorized officer						
Facsimile No.	Telephone No.	Telephone No.						

International application No.
PCT/EP2004/053384

Box	No. I	Basis of the report					
1.		regard to the language, this report is based on the internationated under this item.	onal application in the language in	which it was filed, unless otherwise			
		This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:					
		international search (Rule 12.3 and 23.1(b))					
		publication of the international application (Rule 12.4	·)				
		international preliminary examination (Rule 55.2 and/	/or 55.3)				
2.	recei	ith regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the ceiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to s report):					
		the international application as originally filed/furnished					
	\boxtimes	the description:					
		pages 2, 4, 10, 13-21		as originally filed/furnished			
		pages* 1, 3, 5-9, 11, 12	received by this Authority on	09.07.2005 with letter of 06.07.2005			
		pages*	received by this Authority on				
	\square		_ received by this redifferity on				
		the claims:					
		nos. 1-12, 15-24 - pages 22-24, 26-28		as originally filed/furnished			
		nos.*	as amended (togethe	r with any statement) under Article 19 09.07.2005 with letter			
		nos.* 13, 14 - page 25	received by this Authority on	of 06.07.2005			
		nos.*	received by this Authority on				
	\boxtimes	the drawings:					
		sheets1/13-13/13		as originally filed/furnished			
		sheets*	received by this Authority on				
		sheets*					
		a sequence listing and/or any related table(s) – see Supplem					
3.		The amendments have resulted in the cancellation of:					
		the description, pages					
		the description, pages					
		the claims, nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to sequence listing (specify):					
4.		This report has been established as if (some of) the amend they have been considered to go beyond the disclosure as fi	±				
		the description, pages					
		the claims, nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to sequence listing (specify):					
*	If ite	m 4 applies, some or all of those sheets may be marked "sup					

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Вох			ticle 35(2) with regard to novelty, inventive step or industrial applicability; oporting such statement	
1.	Statement			
	Novelty (N)	Claims	3, 7-11, 14, 18-22	YES
		Claims	1, 2, 4-6, 12, 13, 15-17, 23, 24	NO
	Inventive step (IS)	Claims		YES
		Claims	1-24	NO
	Industrial applicability (IA)	Claims	1-24	YES
		Claims		NO NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

- D1: US 2003/195872 A1 (SENN PAUL)
 16 October 2003 (2003-10-16)
- D2: DAS S R ET AL: "Yahoo! for Amazon: Sentiment Parsing from Small Talk on the Web", EFA 2001 BARCELONA MEETINGS, [Online] 5 August 2001 (2001-08-05), pages 1-45, XP002324570, found on the Internet at URL: http://papers.ssm.com/sol3/papers.cfm ?abstract_id=276189> [found on 2005-04-13].
- 1. The present application fails to satisfy the requirements of PCT Article 33(1) because the subject matter of claims 1-24 lacks novelty (PCT Article 33(2)) or does not involve an inventive step (PCT Article 33(3)).

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one or more linkable search terms being saved in a data memory, a processor accessing a network node via a network, said network node being linked to source databases, and data from said source databases being selected on the basis of the search terms (conventional method used in Internet search engines, see for example D1, paragraphs [0017] and [0018]; figure 1), characterised in that:

- a. at least one evaluation parameter is stored in a data memory, said parameter being associated with a search term and/or a combination of linked search terms (paragraph [0007], lines 4-5: search term "Microsoft" linked with "at least one word with positive emotional connotations"; paragraph [0088]: "combination" of "words retrieved in step 2" and "user-chosen search keys". In "step 2" (paragraph [0087]) evaluation parameters with particular emotional connotations are selected (see paragraph [0072]);
- b. at least one of the source data bases is stored in the data memory, said source data base being associated with a search term and/or a combination of search terms (in paragraph [0086] a user-defined parameter "where to perform the search (Internet, intranet, etc.)" is mentioned in conjunction with the input of the search terms, thereby restricting the search to specified web servers (see

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paragraph [0088], first two lines).

According to paragraph [0019] (see four lines from the end), the search in the method as per D1 is similar to that of conventional search engines such as AltaVista, in which the possibility of restricting the search to specific web servers has, of course, been a conventional feature for many years (with regard to the restriction of the search to specific Internet discussion fora, see also D2, paragraph 5, second paragraph);

- by means of a filter module ("Content Retrieval C. Object", paragraphs [0085] to [0089]), the processor accesses the source databases of the network node and, for each evaluation parameter, in conjunction with the associated search terms (paragraph [0079]) and the associated source databases (paragraph [0081]) and/or a time-related evaluation of the documents (paragraph [0080]: the optional feature "time-related evaluation" is extremely imprecise and, moreover, is not more clearly defined in the description; "documents" are not previously mentioned in this claim), an evaluation of identified data sets is generated (paragraphs [0088], [0089]); and
- d. by means of a parameterisation module ("Content Analysis Engine", paragraphs [0109] ff.)
 based on the evaluation list for each

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valuation parameter, a variable opinion variable is, at least in part dynamically, generated (paragraph [0226], "composite rating"), said variable opinion variable reflecting the opinion swings of network users over time. (This cannot be regarded as a technical feature, being an effect to be achieved by means of the invention (see paragraph 2.1)). However, the objective of the method described in D1 is similar and relates, in particular, to opinion swings over time (see paragraph [0226], last six lines).

In consequence, the subject matter of **claim 1** cannot be considered novel.

1.2 The arguments put forward in the context of the international preliminary examination cannot refute the arguments in relation to novelty set out in point 1.1:

It was argued that, according to claim 1, only a global opinion variable is generated whereas in D1 only a "composite rating" is produced for each web page found. However, this is neither applicable nor correct. According to D1 (paragraphs [0028] and [0035]), the "composite ratings" are substituted for "ratable units", which "ratable units" can be recursively defined; for example, a

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

sentence can consist of multiple grammatical units and a paragraph can consist of multiple sentences (see D1, paragraph [0117], lines 14-22). particular, a "search result object" constitutes a "ratable unit" from the web pages found in the Internet search (see D1, paragraph [0117], lines 25-26; paragraphs [0088] and [0089]). In D1 (paragraph [0117], lines 26-34; paragraphs [0197] ff.), it is shown in general terms how the rating of a "ratable unit" can be recursively obtained from the rating of the components of said unit, for example by obtaining mean or median values. According to the above, it is implicitly evident that this relates also to the process of rating the "search result object" from the ratings of the web pages found in the Internet search. In D1 (paragraph [0226]), a "SearchResult object ... containing the composite rating for the search" is given as the final product of the algorithm. Therefrom, and from the description in paragraph [0226] (lines 14-23) of the comparison between the "composite ratings" for Internet searches with "Sun" and "Microsoft" as the search arguments, it is clear that the system according to D1 generates a single numerical value as the "composite rating" for each Internet search, said rating corresponding to the "opinion variable" according to claim 1.

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It was further argued that the "composite rating" of D1 provides no information concerning the opinion swing of network users whilst the invention according to claim 1, by contrast with D1, makes it possible to track opinion swings over time. This is not included as a technical feature in claim 1 (see the arguments set out in point 1.1, in relation to step c of claim 1). In particular, however, D1 (see paragraph [0226], lines 14-23) refers explicitly to the time-related tracking of opinion swings on the network by means of repeated searches for two search terms and comparison in a "contrast index" of the "emotional tone" of each. In the example in D1, the result shows that "Microsoft is gaining in popularity", which clearly relates to the comparison of the global attitude towards the Microsoft company on the Internet at two different points in time.

Further novelty-related arguments put forward by the applicant, in relation to the obtaining of the "composite ratings" in D1 from the ratings of hierarchically structured sub-units, are clearly not pertinent to the features of claim 1, step d.

- which contains no details relating to the obtaining of the opinion variable; in consequence, said arguments, likewise, fail to support the claim.

Since claim 1 is not novel it is unnecessary to enter into discussion concerning an inventive step.

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- 1.3 Dependent claims 2-11 contain no features which, combined with the features of any claim to which they refer, meet the PCT requirements for novelty and/or inventive step. The reasons are as follows:
 - Claim 2: storing and displaying lists of results are conventional features of Internet search machines and are implicit in D1 (see for example D1, paragraphs [0089] and [0226]). Said claim therefore lacks novelty.
 - Claim 3: with regard to periodic searches for tracking variations in the search results, see D1 (paragraph [0226], second half). If necessary, a person skilled in the art would combine D1 with document D2, in which the periodic search for tracking global opinion swings on the Internet is discussed in detail (see D2, page 26, line 9 to page 27, line 3; figures 2-7). An alarm mechanism for informing the user when search results meet certain conditions is widely known in the field and would be obvious to a person skilled in the art. Claim 3 is therefore not inventive.
 - Claim 4: claim 4 lacks novelty since it is anticipated by the "Information Dimension Dictionary" of D1 (see D1, paragraphs [0070], [0072] and [0087]).

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Claim 5: the dynamic generation of the "Information Dimension Dictionary" is described in D1 (see paragraphs [0093] to [0098]). Said claim therefore lacks novelty (see also paragraph 2.2).

Claim 6: the use of the standard referred to is conventional practice in Internet search engines, at least HTML being clearly implicit in D1. Said claim therefore lacks novelty.

Claims 7-9: the claims are not inventive since the matching of the representation of search results to user profiles or to properties of terminals used by the user and also the automatic matching of user profiles on the basis of the observation of the user behaviour is extremely widespread in the field of Internet search engines, being obvious to a person skilled in the art.

Claims 10 and 11: the problem addressed by the features of the claims is that of making it possible to evaluate historical values and to predict future values of the opinion variable. A person skilled in the art would have met this problem in the context of the method according to D1 since the tracking of swings in the opinion variable over time is a central concept in said document (see paragraph [0226], last six lines). If necessary, a person skilled in the art will

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also combine D1 with document D2, in which the periodic search for tracking global opinion swings on the Internet is discussed in detail (see D2, page 26, line 9 to page 27, line 3 and figures 2-7). For a person skilled in the art, the storing of historical values and the use of an extrapolation module for predicting future values would be obvious features for solving the problem of interest and, in consequence, claims 10 and 11 are not inventive.

1.4 Device claims 12-22 and computer program claims 23 and 24 contain technical features that correspond to the features of method claims 1-11. The arguments set out in points 1.1 and 1.3 above therefore apply mutatis mutandis in respect of claims 12-22 and 23-24.